



## MMI 291 Seminar Series

Current Theme: Interdisciplinary Research  
Spring Quarter 2020 – CRN 73287

**Friday Seminar – 12:10-1 p.m.**



May  
1



**Ami Bhatt, MD, PhD**

Assistant Professor  
Medicine and Genetics  
Stanford University

**May 1, 2020  
12:10 – 1 p.m.  
ZOOM Meeting**

Medical Microbiology  
& Immunology  
School of Medicine

Seminar Contact:  
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We hope to see you there!

## “From Precise Microbial Genomics to Precision Medicine”

### Research

That Bhatt lab's research program seeks to illuminate the interplay between the microbial environment and host/clinical factors in human diseases. The translational laboratory develops and applies novel molecular and computational tools to study strain level dynamics of the microbiome, to understand how microbial genomes change over time and predict the functional output of microbiomes. These innovations facilitate much improved (1) measurement of the types and functions of microbes in patients with non-communicable diseases, (2) understanding how microbes communicate with one another and with human cells using small proteins, and (3) testing of the impact of microbially targeted interventions in clinical trials.

### Publications

**Complete, closed bacterial genomes from microbiomes using nanopore sequencing.** Eli L. Moss, Et al. *Nature Biotechnology*, February 2020.

**A Bioinformatic Analysis of Integrative Mobile Genetic Elements Highlights Their Role in Bacterial Adaptation.** Matthew G. Durant, Et al. *Cell Host and Microbe*, January 2020.

**Large-scale analyses of human microbiomes reveal thousands of small, novel genes.** Hila Sberro, Et al. *Cell*, August 2019.